Derek Ni

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https://derekni.com | https://github.com/derekni

EDUCATION

Cornell University

Ithaca, NY

B.S. Computer Science, GPA: 4.04

Expected May 2023

Courses: Algorithms, Functional Programming, Objected Oriented Programming, Database Systems, Artificial Intelligence, Machine Learning, Discrete Structures, Backend Development, Probability & Statistics

Thomas Jefferson High School for Science and Technology

Alexandria, VA

Advanced Studies Diploma

Graduated June 2019

WORK EXPERIENCE

Fizz | YC/KP Startup

New York, NY

Software Engineer Intern

Jan 2022 – May 2022

• Developed a backend Firestore database to handle credit card and repayment logic

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- Created webhook using Apto API to handle updating the backend for transaction updates
- Connected backend to mobile app and added Firebase event tracking using Flutter.

Amazon Seattle, WA

SDE Intern

May 2021 – Aug 2021

- Redesigned an API for getting messages with the Alexa Messaging Service
- Implemented encrypted pagination tokens for paging through messages with the API

Tesla Palo Alto, CA

Mobile Engineer Intern

Feb 2021 - May 2021

- Developed and improved components in the Tesla app using React Native and TypeScript
- Created simulator to test code endpoints using Flask, Python, and WebSockets

Cornell University Ithaca, NY

CS 2110 Consultant

August 2020 – December 2020

- Hosted weekly office hours to help students with object-oriented programming concepts
- Graded and gave feedback on coding assignments, quizzes and exams

PERSONAL PROJECTS

Ascii Stream | IvyHacks 2nd Overall | TypeScript, WebRTC

- Video call web app that converts video to ASCII art to save bandwidth
- Implemented with WebRTC for real time text and audio communication between users
- Deployed as Next.js web app to Vercel, with Python script to convert video frames to ASCII art

Minto | TypeScript

- Productivity Chrome extension to incentivize productivity by the minute through rewards
- Wrote scripts to track minutes worked in sessions, which users can spend on rewards they create

TaskTime | Swift

- Productivity iOS app to motivate users to complete to-dos and keep healthy habits
- Created gamified to-do list to increase user productivity, through points and rewards

SKILLS

Languages: Python, TypeScript, JavaScript, Java, Dart, C#, Swift, OCaml, HTML, and SQL **Tools**: React[S, Git, Visual Studio Code, Firebase, Flutter, Eclipse, XCode, and Jupyter Notebook